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RD-1'2'2 EF Into Y 11/0 MINICIPALITY TO THE PILES PACEL SUBJECT: Proliminary Evaluation of TF-3, Bellechreiber Eransisterised Printer 1. Two IP-3s, serials \$462 and \$463, were given a preliminary evaluation during the week of 9 December 1957. The units were tested on both 1900 cycle tone modulated and on-off type signals. The originating points for the test signals were and commercial helischreiber stations . Due to 25X1<sub>1</sub> frequency propagation limitations, it was necessary to resort to the 51-74 receiver to copy the that are copyable are in the 23 to 25 mm/s band. This brondenst on 25X11 25X1<sup>-X1</sup> was due to an upper limit of reception capability WOT due to a compatability problem between the printers and any of the WE NOW DESCRIPT. 25X1 2. Both printers were operated with the following receivers: RS-6. RS-6A, RS/A-11, ER-2B, and the 51-J4. In either case, tone medulated or the printed output was readable with on-off keying originating at 25X1 difficulty on equipment. The readability was no better on the 51-J4. Both 'fox' and simulated traffic was originated by for these tests. In the case of hallschreiber signals originated in (on-off type keying; 51-J4 receiver) the tape was perfectly readable. For this test the crystal filter and the mechanical filter were used in an attempt to deplicate the band width of some of receivers. In both instances the received signal strength was comparable. It is believed that the readability difference was due to a difference in quality of the originated signal. 3. There were only minor difficulties encountered in the use of the units which gradually smoothed out as the operators become more familiar with the equipment. The most outstanding defect was that the governor on unit \$662 was malfunctioning. After several hours running time the governor apparently began to 'wear in and started to function properly. The evidence of this malfunction was an extreme downward slant of the printing. This slant was maintained regardless of the condition of the power supply. Any battery pack when used with \$462 gave this slant and the same packs when used with \$463 operated perfectly as to downward or upward trond of lettering. DOG /7 REV DATE 19 MAR BY OGYSTO ORIG COMP 033 CP! 56 TYPE 02-ORIG CLASS 5 PAGES 2 REV CLASS CONFIDENTIAL

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4. It is intended that the TP-3 will be evaluated under full field conditions during the coming RS-16 tests.

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